

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-203954

(43)Date of publication of application : 05.09.1991

(51)Int.Cl.

C08L 67/02

C08K 7/14

C08L 63/00

// C08G 59/30

C09K 21/14

(21)Application number : 01-344506

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(22)Date of filing : 28.12.1989

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## (54) FLAME-RETARDANT POLYESTER BASED RESIN COMPOSITION

## (57)Abstract:

PURPOSE: To obtain the title composition having good thermal stability to retention in molding, excellent flame retardant and mechanical characteristics and hardly generating corrosive gas by pyrolysis by blending a specific halogen-containing epoxy modified material with a flame-retardant assistant and a reinforcing filler.

CONSTITUTION: The objective composition obtained by blending 100 pts.wt. polyester with 3-50 pts.wt. halogen-containing epoxy modified material expressed by the formula (R2 is 1-4C alkylidene, alkylene or -SO2-; R1 and R3 are glycidyl, H, OH or formula II; X and Y are halogen; p and q are 0-4; r is 0-5; n is  $\geq 11$  average polymerization degree) and having  $\leq 1.0$  (KOHmg/g) phenolic acid value, 0.1-20 pts.wt. flame-retardant assistant and 0-150 pts.wt. reinforcing filler. The above-mentioned flame retardant is obtained by heating halogenated bisphenol A and halogenated bisphenol A diglycidyl ether in the presence of a catalyst.

